



Bridge Replacement Br. No. H 12-039
Interstate 495 (NB & SB) over Merrimack River
Haverhill | Project File No. 605306



MassDOT Capital Program Committee
May 9, 2018

Overview

- Bridge was built in 1961 and has been subject to frequent structural repairs.
 - Repairs completed in August 2017 to ensure bridges remain operational throughout replacement construction
 - \$1 million in annual repair costs
- Replacement is part of the 2018 Transportation Improvement Program for the Merrimack Valley Metropolitan Planning Organization
 - 2017-2021 CIP - \$ 60,223,040 Total Project Cost
 - 2018-2022 CIP - \$ 58,523,890 Total Project Cost
 - Updated CIP - \$108,833,832 Total Project Cost

Project Area

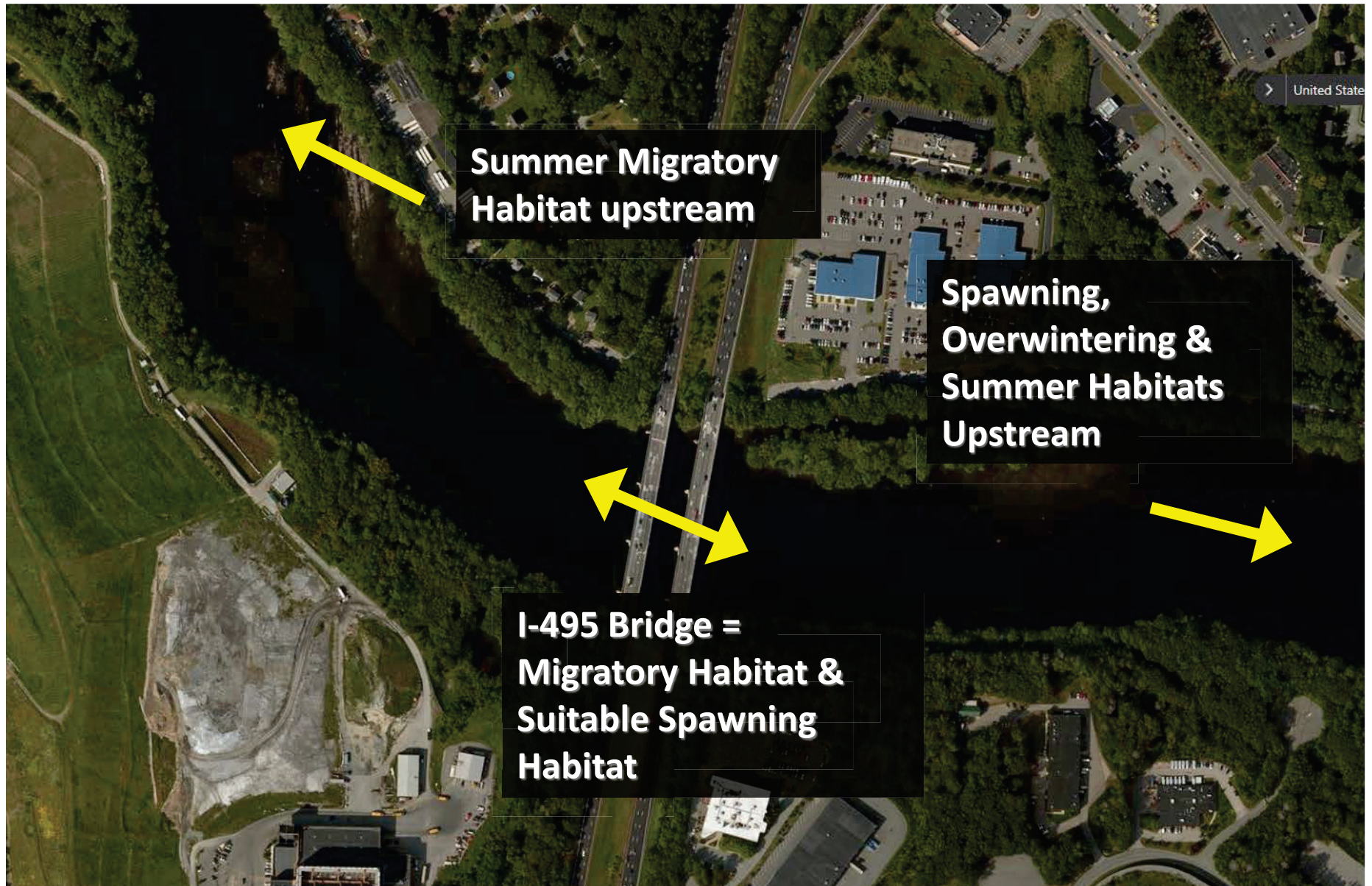


I-495 in Haverhill between Exits 48 and 49

Project Goals

- 75–Year Design Life of Bridge Structures
- 40–Year Design Life of New Roadway Pavements
- Utilize innovative construction techniques to meet construction schedule
- Minimize Traffic Impacts
- Minimize Impacts to Merrimack River
 - in-water work within environmental window
 - maintain 30ft. high by 70 ft. wide navigation channel

Shortnose Sturgeon Behavior



Existing Conditions



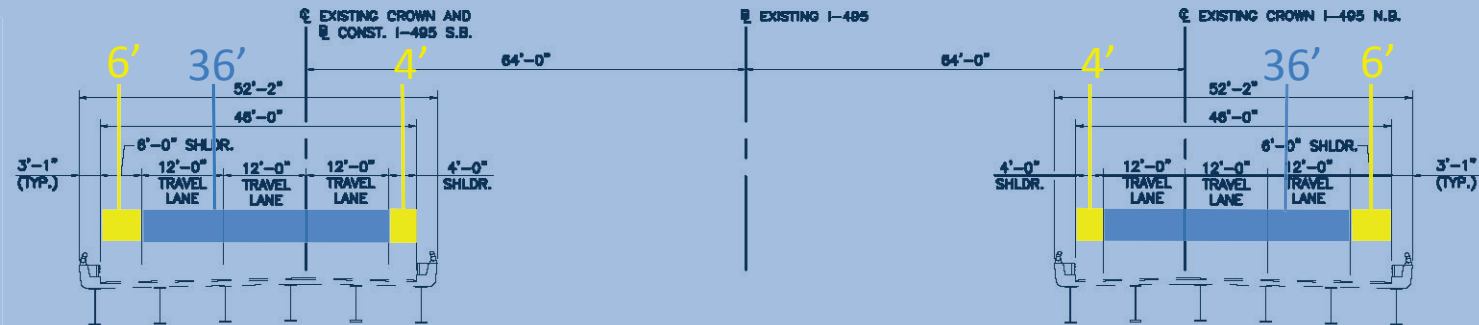
Existing Conditions (cont.)



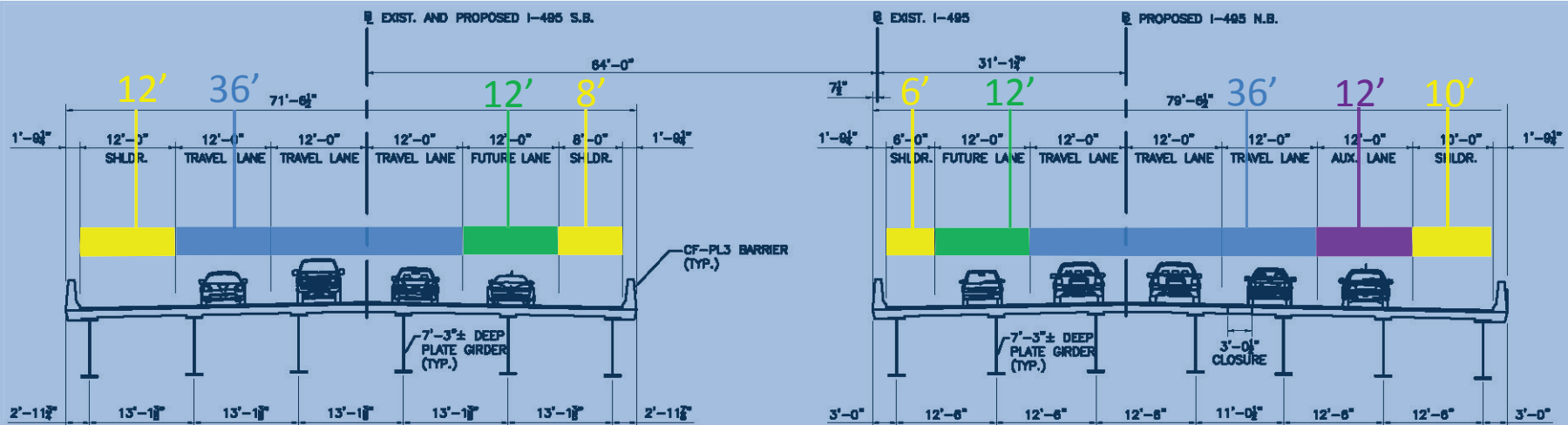
Proposed Condition



Existing to Proposed Condition



Cross Section – Existing Condition



Cross Section – Proposed Condition

Construction Animation

Procurement

- Design-Build Project Delivery
- Request for Letters of Interest August 26, 2017
- Technical/Price Proposals March 29, 2018
- Public Price Opening April 27, 2018
- Price Proposal reviewed and verified that documents are in order and that Best Value Proposer is responsive

Best Value Calculation

Proposer	Price (P)	Technical Score (TS)	Overall Value Rating P/TS
SPS New England, Inc.	\$89,554,105	91.19	982,061
Barletta Heavy Division, Inc.	\$99,788,000	89.93	1,109,619
J F White Contracting Co	\$108,977,930	73.40	1,484,713

Lowest Overall Value Rating = Best Value

Office Estimate: \$91,996,680
Best Value Price Proposal: 2.7% below Office Estimate
Average Price Proposals: \$99,440,012

Project Costs

Office Estimate (advertised)	\$91,996,680
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Best Value (SPS New England)	\$89,554,105
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Contingencies (10%)	\$8,955,411
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Construction Engineering (5%)	\$4,683,643
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Traffic Police	\$2,860,100
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Trainees	\$24,500
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Telephone	\$8,400
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TOTAL CONSTRUCTION COST	\$106,024,871
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Non-Participating (FHWA) Cost	\$1,287,045
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State/Federal Cost	\$107,311,916
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